

10/553576 PCT\$

**NATIONAL PHASE  
UTILITY APPLICATION****Transmittal to the (DO/EO/US)  
Under 35 USC 371**

Attorney Docket No.: TOYA114.008APC  
 First Named Inventor: Hirai, Mitsuharu  
 Int'l Application No.: PCT/JP2004/005496  
 Int'l Filing Date: April 16, 2004  
 Priority Date Claimed: April 16, 2003 and April 18, 2003  
 Title: METHOD OF DETECTING OR QUANTITATIVELY  
 DETERMINING MITOCHONDRIAL DNA 3243  
 VARIATION, AND KIT THEREFOR  
 Express Mail Label No.: EV 718229345 US

**Direct all correspondence to Customer No.: 20995**Date: October 17, 2005  
Page 1 of 2**Mail Stop PCT**

United States Patent and Trademark Office  
 P.O. Box 1450  
 Alexandria VA 22313-1450

The following enclosures are transmitted herewith to be filed in the patent application of:

**Inventors:**

1. Mitsuharu Hirai

**APPLICATION ELEMENTS:**

- (X) This is a FIRST submission of items concerning a filing under 35 U.S.C. § 371.
- (X) This is an Express Request to begin national examination procedures (35 U.S.C. § 371(f)).
- (X) The U.S. has been elected (Article 31).
- (X) A copy of the International Application as filed (35 U.S.C. § 371(c)(2)) has been communicated by the International Bureau. Form PCT/IB/308 enclosed.
- (X) Clean copy of substitute specification with changes is attached here.
- (X) An English translation of the International Application as filed is attached hereto.
- (X) A marked up copy of substitute specification is attached hereto.
- (X) Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3)) have not been and will not be made.
- (X) An Oath or Declaration signed by the inventors (35 U.S.C. § 371(c)(4)).

**OTHER APPLICATION PARTS:**

- (X) Preliminary Amendment in 7 pages.
- (X) Sequence Listing on paper in 5 pages
- (X) Sequence Listing in CRF in duplicate.
- (X) Recordation form cover sheet and Assignment in 3 total pages (cover sheet & assignment).
- (X) Six sheets of drawings.
- (X) Copy of Form PCT/IB/304.
- (X) First page of International application as published.

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<b>NATIONAL PHASE UTILITY APPLICATION</b>  <b>Transmittal to the (DO/EO/US) Under 35 USC 371</b>	Attorney Docket No.: TOYA114.008APC First Named Inventor: Hirai, Mitsuharu Int'l Application No.: PCT/JP2004/005496 Int'l Filing Date: April 16, 2004 Priority Date Claimed: April 16, 2003 and April 18, 2003 Title: METHOD OF DETECTING OR QUANTITATIVELY DETERMINING MITOCHONDRIAL DNA 3243 VARIATION, AND KIT THEREFOR Express Mail Label No.: EV 718229345 US
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Date: October 17, 2005 Page 2 of 2	

(X) International Search Report.

(X) Return prepaid postcard.

**FILING FEES:**

FEE CALCULATION				
FEE TYPE & DETERMINATION		LARGE FEE	CALCULATION	TOTAL
Basic Filing Fee under 1.492(a)		1631 (\$300)		\$300
Search Fee under 1.492(b) (enter one in TOTAL column)				
(1) USPTO was ISA and claims are novel		1640 (\$0)		\$400
(2) USPTO was the ISA		1641 (\$100)		
(3) Foreign Search Report Enclosed		1642 (\$400)		
(4) No Search Report Enclosed		1632 (\$500)		
Examination Fee under 1.492(c) (enter one in TOTAL column)				
(1) USPTO was IPEA & claims satisfy Art. 33 (1)-(4))		1643 (\$0)		\$200
(2) Non US IPEA / Noncompliant Claims		1633 (\$200)		
Excess Claims	24 - 20 = 4	1615 (\$50)	4 x 50 =	\$200
Excess Ind. Claims	3 - 3 = 0	1614 (\$200)	0 x 200 =	\$0
Assignment		8021 (\$40)	* x 40 =	\$40
			<b>TOTAL FEE DUE</b>	<b>\$1,140</b>

(X) A check in the amount of \$1,140 to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.



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**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

**Attorney Docket No.** : TOYA114.008APC

**Applicant(s)** : Hirai, Mitsuharu

**For** : METHOD OF DETECTING OR QUANTITATIVELY  
DETERMINING MITOCHONDRIAL DNA 3243  
VARIATION, AND KIT THEREFOR

**Attorney** : Che Swyden Chereskin, Ph.D.

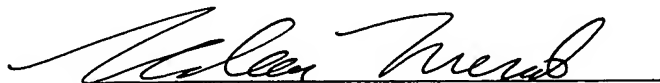
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**Date of Deposit** : October 17, 2005

I hereby certify that the accompanying

Transmittal; Substitute specification in 36 pages; English Translation of the Application; Marked up copy of application showing changes; Preliminary Amendment in 7 pages; Declaration and Power of Attorney in 2 pages; Assignment; Recordation Form Cover Sheet in 3 pages; Paper sequence listing in 5 pages and CRF diskette in duplicate; First page of International application as published; International Search Report; Copies of Forms PCT/IB/304 and PCT/IB/308; Six sheets of drawings; Check for Filing Fee; Return Prepaid Postcard

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